

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Andrea Valenti Examiner #: 78503 Date: 1/8/02
 Art Unit: 3643 Phone Number 305-3010 Serial Number: 09/738,766
 Mail Box and Bldg/Room Location: CPK 5-3411 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Tree Seedling Plug and method of making
 Inventors (please provide full names): Norman Pelton

Earliest Priority Filing Date: 12/18/00

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- a fine, white, thermal-sensitive fiber substance
 manufactured and sold by
 Fibre Neth Holland BV
 under the trademark FIBRE-NETH
 (a plant substrate)

Composition/Company info? Might contain
 Coconut

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Tammi Tohi</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-5967</u>	AA Sequence (#) _____	Dialog <input type="checkbox"/> _____
Searcher Location: <u>6112</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/9</u>	Bibliographic <input checked="" type="checkbox"/> _____	Dr.Link _____
Date Completed: <u>1/10</u>	Litigation _____	Lexis/Nexis <input type="checkbox"/> _____
Searcher Prep & Review Time: <u>40</u>	Fulltext <input checked="" type="checkbox"/> _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input type="checkbox"/> _____
Online Time: <u>260</u>	Other _____	Other (specify) _____

Fachgebiet Gemüsebau

Kokossubstrat can be alternative to the peat substrate, "Jiffytopf" to the plastic pot	Tomato Young plant Substrate
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Summary - recommendations

For the young plant rearing of tomatoes are particularly suitable:

- "TKS 1" (Floragard) in plastic pot and in the "Jiffytopf".
- "Fibre Neth block" (Holland Potground), out with fibers bound Kokossubstrat
- "Kokossubstrat" (Holland Potground)

Attempt question and attempt background

How do different substrates and pots affect the quality of tomato young plants? Attempts of the previous years showed possible alternatives for the application of peat products as well as of steinwolle as culture substrate.

Results

- The young plants developed in Fibre Neth block (29 g/Pfl.), in 10er plastic pot with HP Kokos (29 g/Pfl.), in 10er plastic pot with TKS 1 (28 g/Pfl.) and in Jiffy pot with TKS 1 (25 g/Pfl.) most strongly.
- In Oasiswuerfeln (14 g/Pfl.) and in 10er plastic pots with Pietal (19 g/Pfl.) the plant weight was smallest (fig.1).
- In Fibre Neth blocks tightened young plants showed compact stature and a somewhat brighter sheet color.
- The best root formation was in HP Kokos and in Pietal to determine (fig. 2).

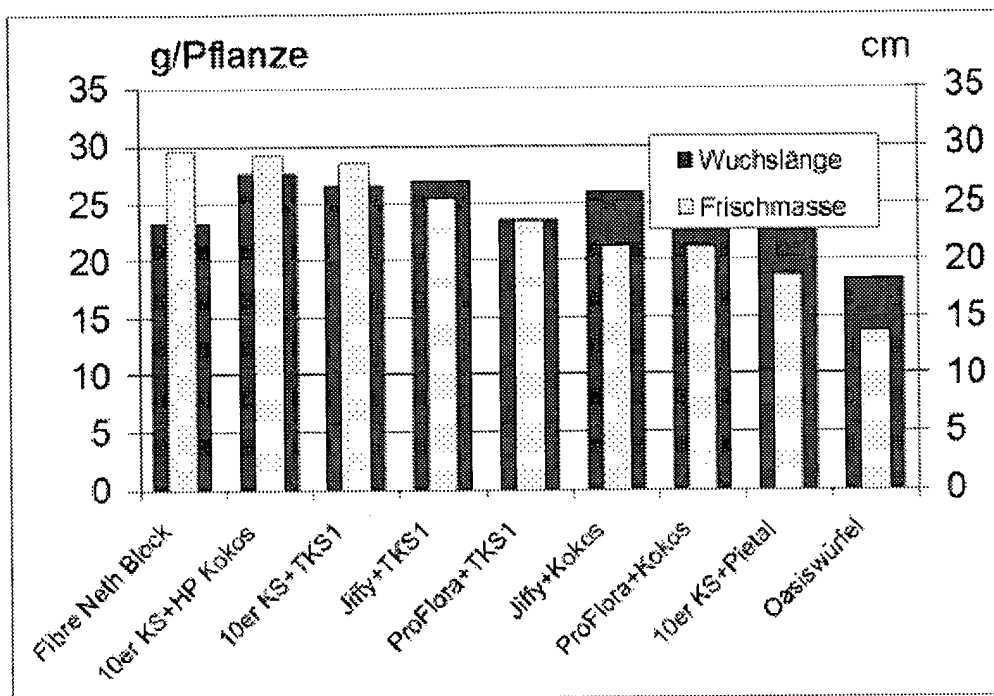


Fig. 1: Influence of pots and substrates on the growth of tomato young plants

Attempts in the German horticulture Institute for research Geisenheim, vegetable growing Editor: Peter Juergen Paschold, Juergen adhesive	2 0 0 0
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Culture data

- Test range: Block layout with 5 repetitions
- Size of a plot: 17 plants
- Sort: Vanessa (wagner)
- Sowing: 10.03.00
- Pot: 23.03.00
- Evaluation: 14.04.00
- Irrigation: "ebb-tide and tide"
- Fertilization: Before beginning of attempt all substrates on same level up-fertilized
"Flory basis 1" + n-component
Damming up solution: 130 mg N/l, 80 mg P₂O₅/l, 220 mg K₂O/l

Tab1: Young plant rearing variants

Var.	Pot	Substrate
1	10er plastic	"TKS 1" (Floragard)
2		"Pietal" Holzfaser substrat
3		"HP Kokos" (H. Potground)
4	Cube 65x65x60 mm	"Oasis" (Agrimedia)
5	Wuerfel 100x100x60 mm	"Fibre Neth" (H. Potground)
6	9er Kokos (pro Flora)	"TKS 1" (Floragard)
7		Kokos (Stender)
8	of eight Papier+Torf ("Jiffy ", Rome mountain)	"TKS 1" (Floragard)
9		Kokos (Stender)

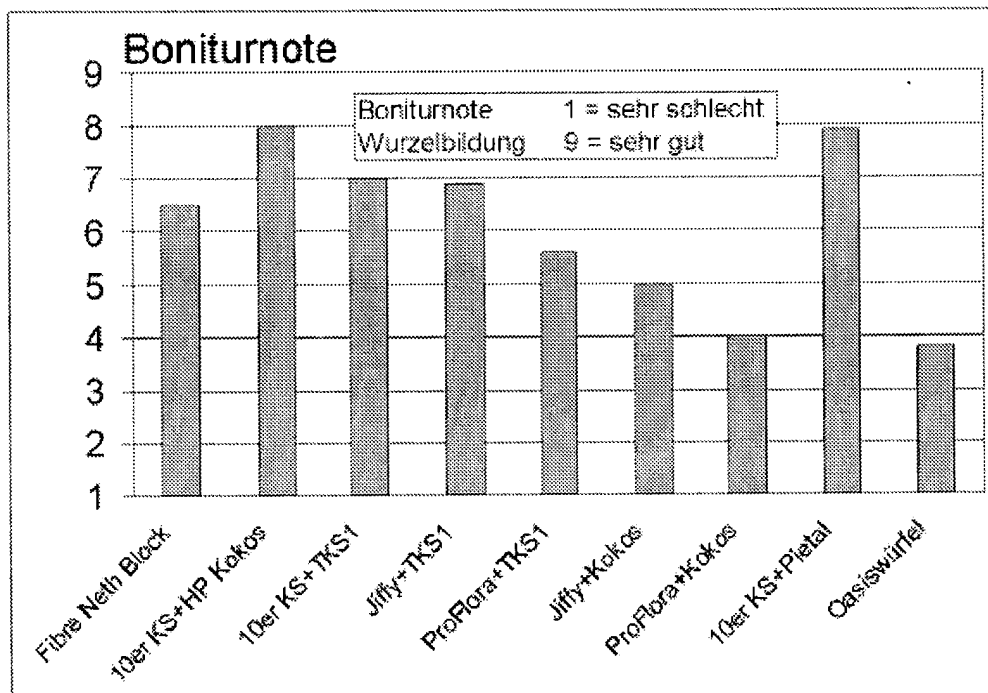
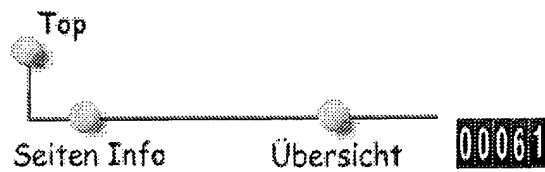
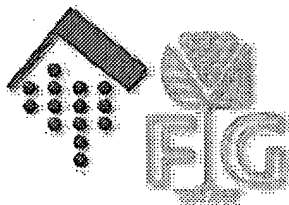


Fig. 2: Influence of pots and substrates on the root formation with tomato young plants

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last treatment: 19.04.01